Amendments to the Claims

Please allow the amendment of the claims as indicated. No new matter is added

 (Currently Amended) An apparatus for identifying network mis-cabling, the apparatus comprising:

> a detection module configured to detect a new connection at a first network switch, the first network switch forming part of a data network comprising a plurality of network switches, wherein each network switch is connected to at least one non-switch network device;

a record module configured to establish a connection request record stored in a network server in communication with the data network, the connection request record configured to identify the new connection at the first network switch, the new connection facilitated by a first physical termination of a cable, and a corresponding second new connection at a second network device, the second new connection facilitated by a second physical termination of the cable;

a comparison module configured to compare the new connection to a switch connection rule if the new connection is a network switch connection, else compare the new connection to a non-switch connection rule, each connection rule defining a network topology and a type of cabling, the switch connection rule allowing communication to a second network switch in a separate sub-network over two loop topology external cables and the non-switch connection rule allowing communication over a point-to-point topology sub-network cable; and

a cabling connection module configured to control authorization of a network communication over the new connection in accordance with the connection rules.

(Original) The apparatus of claim 1, wherein the detection module is further configured to determine if the new connection is a switch connection.

- (Original) The apparatus of claim 1, further comprising a report module configured to notify a host of the new connection at the network switch.
- (Original) The apparatus of claim 1, wherein the cabling connection module comprises an isolation module configured to isolate the new connection from the data network in response to a determination that the new connection is not a legal cabling connection.
- (Original) The apparatus of claim 1, wherein the cabling connection module comprises an insertion module configured to insert the new connection into the data network in response to a determination that the new connection is a legal cabling connection.
- (Original) The apparatus of claim 1, wherein the cabling connection module is further configured to alter an existing connection on the data network.
- (Previously Amended) The apparatus of claim 1, further comprising a verification
 module configured to determine if the new connection conflicts with an existing connection separate
 from the new connection on the data network.

(Canceled)

- (Currently Amended) The apparatus of claim 18, wherein the record module is configured to obtain a second network device identifier, the second network device identifier descriptive of the second new connection.
- (Currently Amended) The apparatus of claim 18, wherein the second network device
 is a second network switch and the connection request record comprises a first switch identifier and a

first port identifier corresponding to the first new connection and a second switch identifier and a second port identifier corresponding to the second new connection, and connection metadata.

- 11. (Currently Amended) The apparatus of claim 18, wherein the second network device is a non-switch network device and the connection request record comprises a first switch identifier and a first port identifier corresponding to the first new connection and a non-switch network device identifier corresponding to the second new connection.
- (Currently Amended) The apparatus of claim 18, wherein the connection request record comprises a device type identifier, a physical location identifier, and an anticipated bandwidth identifier.
- (Currently Amended) The apparatus of claim 18, wherein the record module is further
 configured to establish a connection record, the connection record descriptive of the new connection
 and stored in a connection record database on a host.

(Canceled)

- (Currently Amended) A system for identifying network mis-cabling, the system comprising:
 - a host server having a host bus adapter;
 - a first network switch having a network adapter, the first network switch forming part of a data network comprising a plurality of network switches, wherein each network switch is connected to at least one non-switch network device;
 - an external cable having a first termination and a second termination, the first termination connected to the network adapter forming a first new connection

and the second termination connected to the host bus adapter forming a second new termination:

a cabling connection apparatus configured to detect the first new connection to the first network switch and further configured to report the first new connection:

a record module configured to establish a connection request record stored in a network server in communication with the data network, the connection request record configured to identify the first new connection and the second new connection, wherein the connection request record comprises a device type identifier, a physical location identifier, and an anticipated bandwidth identifier;

a comparison module configured to compare the first new connection to a switch connection rule if the first new connection is a network switch connection, else compare the first new connection to a non-switch connection rule in order to determine if the first new connection is a legal cabling connection, each connection rule defining a network topology and a type of cabling, the switch connection rule allowing communication to a second network switch in a separate sub-network over two loop topology external cables and the non-switch connection rule allowing communication over a point-to-point topology sub-network cable; and

the cabling connection apparatus further configured to control authorization of a network communication over the new connection in accordance with the connection rules.

16. (Original) The system of claim 15, further comprising an isolation module configured to isolate the first new connection, prohibiting a network communication via the first new connection, in response to a determination that the first new connection is not a legal cabling connection.

17. (Canceled)

- (Currently Amended) The system of claim 157, wherein the record module is further configured to transmit the connection request record to the comparison module.
- (Currently Amended) A computer readable storage medium comprising computer readable code configured to carry out a method for identifying network mis-cabling, the method comprising:

detecting a new connection at a first network switch the first network switch forming part of a data network comprising a plurality of network switches, wherein each network switch is connected to at least one non-switch network device:

determining if the new connection is a network switch connection;
establishing a connection request record, the connection request record
configured to identify the new connection at the first network switch and a
corresponding second new connection at a second network device, the new
connection facilitated by a first physical termination of a cable and the second
new connection facilitated by a second physical termination of the cable, wherein
the connection request record comprises a device type identifier, a physical
location identifier, and an anticipated bandwidth identifier corresponding to the
new connection:

obtaining a second network device identifier, the second network device identifier descriptive of the second new connection;

comparing the new connection to a switch connection rule if the new connection is a network switch connection, else comparing the new connection to a non-switch connection rule, each connection rule defining a network topology and a type of cabling, the switch connection rule allowing communication to a second network switch in a separate sub-network over two loop topology external

cables and the non-switch connection rule allowing communication over a pointto-point topology sub-network cable; and

controlling authorization of a network communication over the new connection in accordance with the connection rules.

(Canceled)

- (Original) The computer readable storage medium of claim 19, wherein the method further comprises notifying a host of the new connection at the network switch.
- 22. (Original) The computer readable storage medium of claim 19, wherein the method further comprises isolating the new connection from the data network in response to a determination that the new connection is not a legal cabling connection.
- 23. (Original) The computer readable storage medium of claim 19, wherein the method further comprises inserting the new connection into the data network in response to a determination that the new connection is a legal cabling connection.
- (Original) The computer readable storage medium of claim 19, wherein the method further comprises altering an existing connection on the data network.
- 25. (Previously Presented) The computer readable storage medium of claim 19, wherein the method further comprises determining if the new connection conflicts with an existing connection on the data network separate from the new connection.
 - (Canceled)
 - (Canceled)

28. (Canceled)

- (Original) The computer readable storage medium of claim 19, wherein the method further comprises establishing a connection record, the connection record descriptive of the new connection and stored in a connection record database on a host.
- (Currently Amended) A method for identifying network mis-cabling, the method comprising:

detecting a new connection at a first network switch, the first network switch forming part of a data network comprising a plurality of network switches, wherein each network switch is connected to at least one non-switch network device:

determining if the new connection is a network switch connection;

establishing a connection request record, the connection request record

configured to identify the new connection at the first network switch, wherein the

connection request record comprises a device type identifier, a physical location

identifier, and an anticipated bandwidth identifier corresponding to the new

connection, and a corresponding second new connection at a second network

device, the new connection facilitated by a first physical termination of a cable

and the second new connection facilitated by a second physical termination of the

cable:

comparing the new connection to a switch connection rule if the new connection is a network switch connection, else comparing the new connection to a non-switch connection rule, each connection rule defining a network topology, and a type of cabling, the switch connection rule allowing communication to a second network switch in a separate sub-network over two loop topology external

cables and the non-switch connection rule allowing communication over a pointto-point topology sub-network cable; and

controlling authorization of a network communication over the new connection in accordance with the connection rules.

- 31. (Canceled)
- 32. (Canceled)